

**Flood Control Project Maintenance
Levee Inspections**

Fall 2015 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

| NA0008 | Overall LMA Rating | Total LMA Miles | | | | | | |
|---|------------------------|------------------|---|-------------|-------------|---------|------------------------------|---------|
| Knights Landing Ridge Drainage District | M | 12.39 | | | | | | |
| Rated Item | Maintenance Deficiency | | | | Enforcement | | Design & System Obsolescence | |
| | M Miles | U Miles | M + 4U Miles | Threshold % | M Miles | U Miles | M Miles | U Miles |
| <i>Earthen Levee</i> | | | | | | | | |
| Vegetation | 0.73 | 0.01 | 0.77 | 6.22% | | | | |
| Encroachments | | | | | 0.83 | | | |
| Animal Control | 0.04 | 0.02 | 0.12 | 0.97% | | | | |
| Erosion / Bank Caving | | 0.01 | 0.04 | 0.32% | | | | |
| Cracking | | | | | | | 0.06 | |
| Crown Surface / Depressions / Rutting | 0.01 | | 0.01 | 0.08% | | | | |
| <i>Supplemental</i> | | | | | | | | |
| 2015 USACE Erosion Survey, DRAFT | 1.43 | | 1.43 | 11.54% | | | | |
| DWR UCIP Field Study | | | | | 0.11 | 0.03 | | |
| <i>LMA Totals:</i> | 2.21 | 0.04 | 2.37 | 19.13% | 0.94 | 0.03 | 0.06 | 0.00 |
| Unit No. 01 Knights Landing Ridge Cut RB | Overall Unit Rating | Total Unit Miles | * Overall Unit Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall Unit Rating is M instead of A. | | | | | |
| NA0008 | M * | 6.36 | | | | | | |
| Rated Item | Maintenance Deficiency | | | | Enforcement | | Design & System Obsolescence | |
| | M Miles | U Miles | M + 4U Miles | Threshold % | M Miles | U Miles | M Miles | U Miles |
| <i>Earthen Levee</i> | | | | | | | | |
| Encroachments | | | | | 0.80 | | | |
| Animal Control | 0.02 | 0.01 | 0.06 | 0.94% | | | | |
| Erosion / Bank Caving | | 0.01 | 0.04 | 0.63% | | | | |
| Crown Surface / Depressions / Rutting | 0.01 | | 0.01 | 0.16% | | | | |
| <i>Supplemental</i> | | | | | | | | |
| 2015 USACE Erosion Survey, DRAFT | 0.15 | | 0.15 | 2.36% | | | | |
| DWR UCIP Field Study | | | | | 0.08 | 0.01 | | |
| <i>Unit Totals:</i> | 0.18 | 0.02 | 0.26 | 4.09% * | 0.88 | 0.01 | 0.00 | 0.00 |
| Unit No. 02 Knights Landing Ridge Cut LB | Overall Unit Rating | Total Unit Miles | | | | | | |
| NA0008 | U | 6.03 | | | | | | |
| Rated Item | Maintenance Deficiency | | | | Enforcement | | Design & System Obsolescence | |
| | M Miles | U Miles | M + 4U Miles | Threshold % | M Miles | U Miles | M Miles | U Miles |
| <i>Earthen Levee</i> | | | | | | | | |
| Vegetation | 0.73 | 0.01 | 0.77 | 12.77% | | | | |
| Encroachments | | | | | 0.03 | | | |
| Animal Control | 0.02 | 0.01 | 0.06 | 0.99% | | | | |
| Cracking | | | | | | | 0.06 | |
| <i>Supplemental</i> | | | | | | | | |
| 2015 USACE Erosion Survey, DRAFT | 1.28 | | 1.28 | 21.22% | | | | |
| DWR UCIP Field Study | | | | | 0.03 | 0.02 | | |
| <i>Unit Totals:</i> | 2.03 | 0.02 | 2.11 | 34.98% | 0.06 | 0.02 | 0.06 | 0.00 |

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2015 Levee Inspection Results

Knights Landing Ridge Drainage District

| | Spring (March - May) | Summer ** (June - August) | Fall (September - November) | Winter ** (December - February) |
|----------------------------------|-------------------------|------------------------------|--------------------------------|------------------------------------|
| * Overall LMA Rating (Fall Only) | | | M | |

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2015 Levee Inspection Results

Knights Landing Ridge Drainage District

| Waterway | | | Bank | Unit Miles |
|--|-------------------------|---------------------------|--------------------------------|---------------------------------|
| Unit No. 01 Knights Landing Ridge Cut | | | Right | 6.36 |
| | Spring (March - May) | Summer (June - August) | (September - November) Fall | Winter (December - February) |
| Unit Maintenance Rating (Fall Only) | | | M | |
| Date of Inspection | 04/23/2015 - 04/23/2015 | | 09/29/2015 - 09/29/2015 | |
| DWR Inspector | Jai Lor | | Jai Lor | |
| Accompanied By | | | | |

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Knights Landing Ridge Drainage District

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------------------|-------|------------|--------------------------|------------|
| Unit No. 01 Knights Landing Ridge Cut | Right | 6.36 | 09/29/2015 09/29/2015 | Jai Lor |

| | | | | | | |
|---|----------------------------------|--------------|----|------------------------|-----|-----|
| LM Start | | Rating ** | A | Issue No. | 3 | |
| LM End | | Issue Type + | Ma | Location * | N/A | |
| Category | Earthen Levee | | | GPS Latitude/Longitude | | |
| | | | | Start | | End |
| Item | Operations & Maintenance Manuals | | | | o | |
| | | | | | o | |
| DWR ID | DWR_NA0008_01_s _ 2013_3 | | | | | |
| Action/Comments | | | | | | |
| Inspector Comments: District has levee O&M manuals. | | | | | | |

No Photos

| | | | | | |
|--|--------------------------------|--------------|----|------------------------|-----|
| LM Start | | Rating ** | A | Issue No. | 8 |
| LM End | | Issue Type + | Ma | Location * | N/A |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Emergency Supplies & Equipment | | | | o |
| | | | | | o |
| DWR ID | DWR_NA0008_01_s _ 2013_8 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: District maintains a stockpile of flood fight response material. | | | | | |

No Photos

| | | | | | |
|--|-------------------------------|--------------|----|------------------------|-----|
| LM Start | | Rating ** | A | Issue No. | 9 |
| LM End | | Issue Type + | Ma | Location * | N/A |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Flood Preparedness & Training | | | | ° |
| | | | | | ° |
| DWR ID | DWR_NA0008_01_s _ 2013_9 | | | | |
| Action/Comments | | | | | |
| Inspector Comments: District has written response plan and regular flood fight training. | | | | | |

No Photos

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|--|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Knights Landing Ridge Drainage District

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------------------|-------|------------|--------------------------|------------|
| Unit No. 01 Knights Landing Ridge Cut | Right | 6.36 | 09/29/2015 09/29/2015 | Jai Lor |

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.00 | Rating ** | A | Issue No. | 14 |
| LM End | 6.35 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.719063 ° | 38.792438 ° |
| | | | | -121.664139 ° | -121.726674 ° |
| DWR ID | DWR_NA0008_01_f _ 2015_14 | | | | |
| Action/Comments | | | | | |
| Control annual grass and weeds on the levee slopes and easements. Inspector Comments: The LMA has maintained the vegetation on the slope. | | | | | |

Photo 1 of 1 : FA_2015_NA0008_256_14_20151005_00013.jpg



View of the vegetation on the landward side of the levee looking upstream. Fall 2015.

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.00 | Rating ** | A | Issue No. | 15 |
| LM End | 6.35 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.719063 ° | 38.792438 ° |
| | | | | -121.664140 ° | -121.726674 ° |
| DWR ID | DWR_NA0008_01_f_2015_15 | | | | |
| Action/Comments | | | | | |
| Control annual grass and weeds on the levee slopes and easements. Inspector Comments: The LMA has maintained the vegetation on the slope. | | | | | |

No Photos

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|--|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Knights Landing Ridge Drainage District

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------------------|-------|------------|--------------------------|------------|
| Unit No. 01 Knights Landing Ridge Cut | Right | 6.36 | 09/29/2015 09/29/2015 | Jai Lor |

| | | | | | |
|----------|----------------------|--------------|----|------------------------|---------------|
| LM Start | 0.25 | Rating ** | U | Issue No. | 26 |
| LM End | 0.25 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.722222 ° | 38.722222 ° |
| | | | | -121.666357 ° | -121.666357 ° |
| DWR ID | | | | | |

Action/Comments

Inspector Comments: FS_ID:13203

DS_ID:19360

EP_NO: 9302

FS_HLM: 0.254

Repair Type: Urgent

Crossing Status: Found

UCIP Comments: Pipe completely rusted through on LS slope of levee at toe/headwall of concrete distribution box. Pipe needs replacement or proper abandonment. Pipe not visible at outlet.

FIELD_STRUCT_DESC: 36-inch pipe through the levee, 27.0 feet below the crown. Slide gate on the waterward end. 12'X6' Concrete box on the landward end (Permit No. 9302-Elliott). Originally included in O+M manual (1953). 18-inch welded Steel pipe, sleeved through 36-inch with annular space grouted (Permit No. 18987, 2015).

FS Date: 04/05/2013

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 0.25 | Rating ** | U | Issue No. | 26 (cont) |
| LM End | 0.25 | Issue Type + | En | Location * | WS |

Photo 1 of 3 : UCIP_FA_2015_0269.jpg



Pipe failure at connection to concrete box on LS toe.

Photo 2 of 3 : UCIP_FA_2015_0270.jpg



Slide gate on metal stand on WS toe. Pipe opening not visible.

| * Location | ** Rating | + Issue Type |
|---|---|--|
| LS : Land Side WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
| N/A : Not Applicable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | |

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Knights Landing Ridge Drainage District

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------------------|-------|------------|--------------------------|------------|
| Unit No. 01 Knights Landing Ridge Cut | Right | 6.36 | 09/29/2015 09/29/2015 | Jai Lor |

| | | | | | |
|---------------------------------|----------------------|--------------|----|------------------------|---------------|
| LM Start | 0.25 | Rating ** | U | Issue No. | 26 (cont) |
| LM End | 0.25 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.722222 ° | 38.722222 ° |
| | | | | -121.666357 ° | -121.666357 ° |
| DWR ID | | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:13203 | | | | | |
| DS_ID:19360 | | | | | |
| EP_NO: 9302 | | | | | |
| FS_HLM: 0.254 | | | | | |
| Repair Type: Urgent | | | | | |
| Crossing Status: Found | | | | | |

Photo 3 of 3 : UCIP_FA_2015_0271.jpg



Concrete distribution box on LS toe.

| | | | | | |
|-----------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.73 | Rating ** | M | Issue No. | 16 |
| LM End | 0.73 | Issue Type + | En | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.726906 ° | 38.726906 ° |
| | | | | -121.672744 ° | -121.672744 ° |
| DWR ID | DWR_NA0008_01_f_2015_16 | | | | |
| Action/Comments | | | | | |
| Debris | | | | | |

Photo 1 of 1 : FA_2015_NA0008_256_16_20151005_00014.jpg

View of the debris on the waterward side of the levee looking upstream.
Fall 2015.

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|--|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Knights Landing Ridge Drainage District

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------------------|-------|------------|--------------------------|------------|
| Unit No. 01 Knights Landing Ridge Cut | Right | 6.36 | 09/29/2015 09/29/2015 | Jai Lor |

| | | | | | |
|----------|----------------------|--------------|----|------------------------|---------------|
| LM Start | 0.87 | Rating ** | M | Issue No. | 27 |
| LM End | 0.87 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.727869 ° | 38.727869 ° |
| | | | | -121.674875 ° | -121.674875 ° |
| DWR ID | | | | | |

Action/Comments

Inspector Comments: FS_ID:11064
 DS_ID:19361
 EP_NO: 9302
 FS_HLM: 0.878
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: Pipe exposed on WS slope in trench may need to be backfilled to prevent erosion under pipe.
 FIELD_STRUCT_DESC: 20-inch steel irrigation pipe through the levee, 8.8 feet below the crown. Pump on steel pile structure at WS toe.
 Siphon breaker in 12-inch steel riser on LS slope. Possible butterfly valve at LS toe. (Permit No. 9302-Elliott 1974), Originally included in O+M manual (1953).
 FS Date: 04/05/2013

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 0.87 | Rating ** | M | Issue No. | 27 (cont) |
| LM End | 0.87 | Issue Type + | En | Location * | WS |

Photo 1 of 3 : UCIP_FA_2015_0423.jpg



Possible butterfly valve off LS toe.

Photo 2 of 3 : UCIP_FA_2015_0424.jpg



Siphon breaker in 12-inch steel riser on LS slope.

| * Location | ** Rating | + Issue Type |
|---|---|--|
| LS : Land Side WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
| N/A : Not Applicable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | |

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Knights Landing Ridge Drainage District

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------------------|-------|------------|--------------------------|------------|
| Unit No. 01 Knights Landing Ridge Cut | Right | 6.36 | 09/29/2015 09/29/2015 | Jai Lor |

| | | | | | |
|---------------------------------|----------------------|--------------|----|------------------------|---------------|
| LM Start | 0.87 | Rating ** | M | Issue No. | 27 (cont) |
| LM End | 0.87 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.727869 ° | 38.727869 ° |
| | | | | -121.674875 ° | -121.674875 ° |
| DWR ID | | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:11064 | | | | | |
| DS_ID:19361 | | | | | |
| EP_NO: 9302 | | | | | |
| FS_HLM: 0.878 | | | | | |
| Repair Type: Non-Urgent | | | | | |
| Crossing Status: Found | | | | | |

Photo 3 of 3 : UCIP_FA_2015_0425.jpg



Pump on pile at WS toe with pipe in open trench on LS slope.

| | | | | | |
|---|----------------------|--------------|----|------------------------|---------------|
| LM Start | 1.14 | Rating ** | M | Issue No. | 28 |
| LM End | 1.14 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.730275 ° | 38.730275 ° |
| | | | | -121.678975 ° | -121.678975 ° |
| DWR ID | | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:11065 DS_ID:19362 EP_NO: 9305 FS_HLM: 1.158 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Slope on WS shoulder appears to be eroding at pipes exit from levee. 36-inch conc riser on LS is filled with mud. FIELD_STRUCT_DESC: 10-inch pipe through the levee, 5.8-feet below the crown. Pump at the waterward toe. 36-inch Concrete standpipe at the landward toe (Permit No. 9305-Bacchini). 5-inch steel-pipe sleeved through 10-inch pipe. Annular space Grouted. (Permit No. 6076-Bacchini). Originally included in O+M manual (1953). FS Date: 04/05/2013 | | | | | |

Photo 1 of 3 : UCIP_FA_2015_0426.jpg



36-inch Concrete standpipe at LS toe

| | | | | | |
|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|--|--|---|--|---|--|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Knights Landing Ridge Drainage District

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------------------|-------|------------|--------------------------|-----------|
| Unit No. 01 Knights Landing Ridge Cut | Right | 6.36 | 09/29/2015 09/29/2015 | Jai Lor |

| | | | | | |
|----------|----------------------|--------------|----|------------------------|------------------|
| LM Start | 1.14 | Rating ** | M | Issue No. | 28 (cont) |
| LM End | 1.14 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.730275 ° | 38.730275 ° |
| | | | | -121.678975 ° | -121.678975 ° |
| DWR ID | | | | | |

Action/Comments

Inspector Comments: FS_ID:11065
 DS_ID:19362
 EP_NO: 9305
 FS_HLM: 1.158
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: Slope on WS shoulder appears to be eroding at pipes exit from levee. 36-inch conc riser on LS is filled with mud.
 FIELD_STRUCT_DESC: 10-inch pipe through the levee, 5.8-feet below the crown. Pump at the waterward toe. 36-inch Concrete standpipe at the landward toe (Permit No. 9305-Bacchini). 5-inch steel-pipe sleeved through 10-inch pipe. Annular space Grouted. (Permit No. 6076-Bacchini). Originally included in O+M manual (1953).
 FS Date: 04/05/2013

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 1.14 | Rating ** | M | Issue No. | 28 (cont) |
| LM End | 1.14 | Issue Type + | En | Location * | WS |

Photo 2 of 3 : UCIP_FA_2015_0427.jpg



Erosion at pipes exit from levee on WS shoulder.

Photo 3 of 3 : UCIP_FA_2015_0428.jpg



Pump on WS shoulder overgrown and may be abandoned.

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|--|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Knights Landing Ridge Drainage District

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------------------|-------|------------|--------------------------|------------|
| Unit No. 01 Knights Landing Ridge Cut | Right | 6.36 | 09/29/2015 09/29/2015 | Jai Lor |

| | | | | | |
|---------------------------------|----------------------|--------------|----|------------------------|---------------|
| LM Start | 1.59 | Rating ** | M | Issue No. | 29 |
| LM End | 1.59 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.735399 ° | 38.735399 ° |
| | | | | -121.684058 ° | -121.684058 ° |
| DWR ID | | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:13204 | | | | | |
| DS_ID:19363 | | | | | |
| EP_NO: 9302 | | | | | |
| FS_HLM: 1.61 | | | | | |
| Repair Type: Non-Urgent | | | | | |
| Crossing Status: Found | | | | | |

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 1.59 | Rating ** | M | Issue No. | 29 (cont) |
| LM End | 1.59 | Issue Type + | En | Location * | WS |

Photo 1 of 3 : UCIP_FA_2015_0272.jpg



16-inch pipe sleeved through 24-inch pipe on WS slope.

Photo 2 of 3 : UCIP_FA_2015_0273.jpg



Pipe and pier on WS toe.

| | | | | | |
|---|--|--|--|--|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|---|--|--|--|--|--|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Knights Landing Ridge Drainage District

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------------------|-------|------------|--------------------------|------------|
| Unit No. 01 Knights Landing Ridge Cut | Right | 6.36 | 09/29/2015 09/29/2015 | Jai Lor |

| | | | | | |
|---------------------------------|----------------------|--------------|----|------------------------|---------------|
| LM Start | 1.59 | Rating ** | M | Issue No. | 29 (cont) |
| LM End | 1.59 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.735399 ° | 38.735399 ° |
| | | | | -121.684058 ° | -121.684058 ° |
| DWR ID | | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:13204 | | | | | |
| DS_ID:19363 | | | | | |
| EP_NO: 9302 | | | | | |
| FS_HLM: 1.61 | | | | | |
| Repair Type: Non-Urgent | | | | | |
| Crossing Status: Found | | | | | |

Photo 3 of 3 : UCIP_FA_2015_0274.jpg



Siphon breaker on LS slope.

| | | | | | |
|--|----------------------|--------------|----|------------------------|---------------|
| LM Start | 2.58 | Rating ** | M | Issue No. | 30 |
| LM End | 2.58 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.747110 ° | 38.747110 ° |
| | | | | -121.694415 ° | -121.694415 ° |
| DWR ID | | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:11067 | | | | | |
| DS_ID:19364 | | | | | |
| EP_NO: 9307 | | | | | |
| FS_HLM: 2.606 | | | | | |
| Repair Type: Non-Urgent | | | | | |
| Crossing Status: Found | | | | | |
| UCIP Comments: Siphon breaker on LS buried or broken off and missing. | | | | | |
| FIELD_STRUCT_DESC: 1 of 2: 14-inch pipe through the levee, 5.4-feet below crown. Pump house on pile structure at the landward toe | | | | | |
| Siphon breaker on the landward slope. Service pole and anchor at landward toe (Permit No. 9307- Lowe). Originally included in O+M manual (1953). | | | | | |
| FS Date: 04/05/2013 | | | | | |

Photo 1 of 1 : UCIP_FA_2015_0445.jpg



Pump and pipe on LS toe.

| | | | | | |
|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|--|--|---|--|---|--|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Knights Landing Ridge Drainage District

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------------------|-------|------------|--------------------------|------------|
| Unit No. 01 Knights Landing Ridge Cut | Right | 6.36 | 09/29/2015 09/29/2015 | Jai Lor |

| | | | | | |
|--|---------------------------|--------------|----|------------------------|-------------|
| LM Start | 2.58 | Rating ** | M | Issue No. | 17 |
| LM End | 2.58 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.747109 ° | 38.747109 |
| | | | | -121.694426 ° | -121.694426 |
| DWR ID | DWR_NA0008_01_f _ 2015_17 | | | | |
| Action/Comments | | | | | |
| Pipe | | | | | |
| Inspector Comments: The pipe on the landward side of the levee is partially exposed by the farmer. | | | | | |

Photo 1 of 3 : FA_2015_NA0008_256_17_20151005_00015.jpg



View of the pipe on the landward side of the levee looking downstream. Fall 2015.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 2.58 | Rating ** | M | Issue No. | 17 (cont) |
| LM End | 2.58 | Issue Type + | En | Location * | LS |

Photo 2 of 3 : FA_2015_NA0008_256_17_20151005_00016.jpg



Looking towards the crown of the levee from the landward toe. Fall 2015.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 2.58 | Rating ** | M | Issue No. | 17 (cont) |
| LM End | 2.58 | Issue Type + | En | Location * | LS |

Photo 3 of 3 : FA_2015_NA0008_256_17_20151005_00017.jpg



View of the pump of the pipe at the toe of the levee on the landward side. Fall 2015.

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|--|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Knights Landing Ridge Drainage District

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------------------|-------|------------|--------------------------|------------|
| Unit No. 01 Knights Landing Ridge Cut | Right | 6.36 | 09/29/2015 09/29/2015 | Jai Lor |

| | | | | | |
|---------------------------------|----------------------|--------------|----|------------------------|---------------|
| LM Start | 2.58 | Rating ** | M | Issue No. | 31 |
| LM End | 2.58 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.747204 ° | 38.747204 ° |
| | | | | -121.694440 ° | -121.694440 ° |
| DWR ID | | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:13205 | | | | | |
| DS_ID:19391 | | | | | |
| EP_NO: 9307 | | | | | |
| FS_HLM: 2.613 | | | | | |
| Repair Type: Non-Urgent | | | | | |
| Crossing Status: Found | | | | | |

Photo 1 of 2 : UCIP_FA_2015_0275.jpg



Slide gate and concrete headwall on WS toe.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 2.58 | Rating ** | M | Issue No. | 31 (cont) |
| LM End | 2.58 | Issue Type + | En | Location * | LS |

Photo 2 of 2 : UCIP_FA_2015_0276.jpg



Concrete inlet on LS toe.

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|--|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Knights Landing Ridge Drainage District

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------------------|-------|------------|--------------------------|------------|
| Unit No. 01 Knights Landing Ridge Cut | Right | 6.36 | 09/29/2015 09/29/2015 | Jai Lor |

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.58 | Rating ** | C | Issue No. | 19 |
| LM End | 2.58 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Cracking | | | 38.747218 ° | 38.747218 ° |
| | | | | -121.694450 ° | -121.694450 ° |
| DWR ID | DWR_NA0008_01_f _ 2013_19 | | | | |
| Action/Comments | | | | | |
| Monitor and have inspected by geotechnical engineer. | | | | | |
| Inspector Comments: Cracks along crown and down waterside slope. | | | | | |

No Photos

| | | | | | |
|---|----------------------|--------------|----|------------------------|---------------|
| LM Start | 2.68 | Rating ** | M | Issue No. | 32 |
| LM End | 2.68 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.748524 ° | 38.748524 ° |
| | | | | -121.694788 ° | -121.694788 ° |
| DWR ID | | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:41892 | | | | | |
| DS_ID:19383 | | | | | |
| EP_NO: 13164 | | | | | |
| FS_HLM: 2.708 | | | | | |
| Repair Type: Non-Urgent | | | | | |
| Crossing Status: Not Found | | | | | |
| UCIP Comments: Need to contact owner to determine status of crossing and install markers if appropriate. | | | | | |
| FIELD_STRUCT_DESC: 4-inch steel natural gas collection pipe through the levee 2.8-feet below the crown. Pipe attached to downstream side of bridge. Design drawings available in permit. (Permit No. 13164, 1981) | | | | | |
| FS Date: 04/05/2013 | | | | | |

No Photos

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|--|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Knights Landing Ridge Drainage District

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------------------|-------|------------|--------------------------|-----------|
| Unit No. 01 Knights Landing Ridge Cut | Right | 6.36 | 09/29/2015 09/29/2015 | Jai Lor |

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.70 | Rating ** | M | Issue No. | 18 |
| LM End | 2.70 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.748837 ° | 38.748837 ° |
| | | | | -121.694823 ° | -121.694823 ° |
| DWR ID | DWR_NA0008_01_f_2015_18 | | | | |
| Action/Comments | | | | | |
| Pipe | | | | | |
| Inspector Comments: Portion of the pipe seems to be replaced and the abandoned pipe is left at the toe of the landward side of the levee. | | | | | |

Photo 1 of 2 : FA_2015_NA0008_256_18_20151005_00018.jpg



View of the abandoned pipe at the toe of levee on the landward side.
Fall 2015.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 2.70 | Rating ** | M | Issue No. | 18 (cont) |
| LM End | 2.70 | Issue Type + | En | Location * | LS |

Photo 2 of 2 : FA_2015_NA0008_256_18_20151005_00019.jpg



The dark portion on the left pipe seems to have been replaced with a new pipe. Fall 2015.

| | | | | | |
|--|----------------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.36 | Rating ** | M | Issue No. | 2 |
| LM End | 3.44 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2015 USACE Erosion Survey, DRAFT | | | 38.758432 ° | 38.759332 ° |
| | | | | -121.695158 ° | -121.696063 ° |
| DWR ID | | | | | |
| Action/Comments | | | | | |
| Inspector Comments: 2011 - Toe scour and bank slumping. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: KLR_3-5_R] | | | | | |

No Photos

| | | | | | | | |
|--|--|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|--|--|--|--|---|--|---|--|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Knights Landing Ridge Drainage District

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------------------|-------|------------|--------------------------|------------|
| Unit No. 01 Knights Landing Ridge Cut | Right | 6.36 | 09/29/2015 09/29/2015 | Jai Lor |

| | | | | | |
|--------------------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.50 | Rating ** | U | Issue No. | 20 |
| LM End | 3.50 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 38.759910 ° | 38.759910 ° |
| | | | | -121.696920 ° | -121.696920 ° |
| DWR ID | DWR_NA0008_01_f_2015_20 | | | | |
| Action/Comments | | | | | |
| Note and monitor erosion site. | | | | | |

Photo 1 of 2 : FA_2015_NA0008_256_20_20150914_00005.jpg



Deep erosion at the bottom of the waterside slope 3-4 foot cut. Fall 2013

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 3.50 | Rating ** | U | Issue No. | 20 (cont) |
| LM End | 3.50 | Issue Type + | Ma | Location * | WS |

Photo 2 of 2 : FA_2015_NA0008_256_20_20151005_00020.jpg

View of the erosion on the waterward side of the levee looking upstream.
Fall 2015.

| | | | | | |
|---|----------------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.88 | Rating ** | M | Issue No. | 1 |
| LM End | 3.95 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2015 USACE Erosion Survey, DRAFT | | | 38.764037 ° | 38.764905 ° |
| | | | | -121.701434 ° | -121.702074 ° |
| DWR ID | | | | | |
| Action/Comments | | | | | |
| Inspector Comments: 2011 - Toe erosion and erosion pockets from tree popouts. More tree popouts are expected due to the eroding toe. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: KLR_3-9_R] | | | | | |

No Photos

| | | | | | | | |
|---|--|---|--|---|--|--|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|---|--|---|--|---|--|--|--|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Knights Landing Ridge Drainage District

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------------------|-------|------------|--------------------------|------------|
| Unit No. 01 Knights Landing Ridge Cut | Right | 6.36 | 09/29/2015 09/29/2015 | Jai Lor |

| | | | | | |
|--|-------------------------|--------------|----|------------------------|-------------|
| LM Start | 4.28 | Rating ** | M | Issue No. | 21 |
| LM End | 4.28 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 38.769608 ° | 38.769608 |
| | | | | -121.703076 ° | -121.703076 |
| DWR ID | DWR_NA0008_01_f_2015_21 | | | | |
| Action/Comments | | | | | |
| No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |

Photo 1 of 1 : FA_2015_NA0008_256_21_20151005_00021.jpg



View of the rodent holes on the waterward side of the levee looking upstream. Fall 2015.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.38 | Rating ** | M | Issue No. | 22 |
| LM End | 4.88 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.771003 ° | 38.777404 ° |
| | | | | -121.703413 ° | -121.707412 ° |
| DWR ID | DWR_NA0008_01_f_2015_22 | | | | |
| Action/Comments | | | | | |
| Ditch | | | | | |
| Inspector Comments: Ditch is at the levee toe on the landward side. | | | | | |

Photo 1 of 1 : FA_2015_NA0008_256_22_20151005_00022.jpg



View of the ditch on the landward side of the levee looking upstream. Fall 2015.

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|--|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Knights Landing Ridge Drainage District

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------------------|-------|------------|--------------------------|------------|
| Unit No. 01 Knights Landing Ridge Cut | Right | 6.36 | 09/29/2015 09/29/2015 | Jai Lor |

| | | | | | |
|----------|----------------------|--------------|----|------------------------|---------------|
| LM Start | 4.89 | Rating ** | M | Issue No. | 33 |
| LM End | 4.89 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.777566 ° | 38.777566 ° |
| | | | | -121.707591 ° | -121.707591 ° |
| DWR ID | | | | | |

Action/Comments

Inspector Comments: FS_ID:11264
 DS_ID:19367
 EP_NO: 4443
 FS_HLM: 4.948
 Repair Type: Non-Urgent
 Crossing Status: Found
 UCIP Comments: Pipe does not have adequate cover at crown.
 FIELD_STRUCT_DESC: 16-inch drainage pipe through the levee 0.5-feet below the crown. Pad constructed over pipe for vehicular crossing.
 Pump on metal structure on the landward side, flap gate on the waterside end, Siphon breaker on the pipe on the waterside. Slide gate located on LS toe. (Permit No. 4443-RD 730). Design drawings available in permit.
 FS Date: 04/05/2013

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 4.89 | Rating ** | M | Issue No. | 33 (cont) |
| LM End | 4.89 | Issue Type + | En | Location * | LS |

Photo 1 of 3 : UCIP_FA_2015_0195.jpg



Pump on Steel pile structure with slide gate at LS toe.

Photo 2 of 3 : UCIP_FA_2015_0196.jpg



Siphon and air vent on WS shoulder.

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|--|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Knights Landing Ridge Drainage District

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------------------|-------|------------|--------------------------|------------|
| Unit No. 01 Knights Landing Ridge Cut | Right | 6.36 | 09/29/2015 09/29/2015 | Jai Lor |

| | | | | | |
|---------------------------------|----------------------|--------------|----|------------------------|---------------|
| LM Start | 4.89 | Rating ** | M | Issue No. | 33 (cont) |
| LM End | 4.89 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.777566 ° | 38.777566 ° |
| | | | | -121.707591 ° | -121.707591 ° |
| DWR ID | | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:11264 | | | | | |
| DS_ID:19367 | | | | | |
| EP_NO: 4443 | | | | | |
| FS_HLM: 4.948 | | | | | |
| Repair Type: Non-Urgent | | | | | |
| Crossing Status: Found | | | | | |

Photo 3 of 3 : UCIP_FA_2015_0197.jpg



Pump and pipe on LS toe.

| | | | | | |
|---|---------------------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.26 | Rating ** | M | Issue No. | 23 |
| LM End | 5.26 | Issue Type + | Ma | Location * | CR |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Crown Surface / Depressions / Rutting | | | 38.781336 ° | 38.781336 ° |
| | | | | -121.712368 ° | -121.712368 ° |
| DWR ID | DWR_NA0008_01_f_2015_23 | | | | |
| Action/Comments | | | | | |
| Repair depressions or ruts in the crown or slope. | | | | | |

No Photos

| | | | |
|--|--|---|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Knights Landing Ridge Drainage District

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------------------|-------|------------|--------------------------|------------|
| Unit No. 01 Knights Landing Ridge Cut | Right | 6.36 | 09/29/2015 09/29/2015 | Jai Lor |

| | | | | | |
|----------|----------------------|--------------|----|------------------------|---------------|
| LM Start | 6.00 | Rating ** | M | Issue No. | 34 |
| LM End | 6.00 | Issue Type + | En | Location * | CR |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.788921 ° | 38.788921 ° |
| | | | | -121.721985 ° | -121.721985 ° |
| DWR ID | | | | | |

| Action/Comments | | | | | |
|---|--|--|--|--|--|
| Inspector Comments: FS_ID:41068 DS_ID:19397 EP_NO: 5276 FS_HLM: 6.064 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears abandoned at this time. FIELD_STRUCT_DESC: 2 of 2: 20-inch steel irrigation pipe through the levee 4.9-feet below the crown. Vertical pump unit on pile structure in stream. Siphon breaker on the landward shoulder in 16-inch steel riser. Flap gate on the landward end. Discharges into irrigation ditch at the landward side. (Permit No. 5276-RD 730 replaced an 18-inch at this location). Steel plate welded over end of pipe at pump structure. FS Date: 04/05/2013 | | | | | |

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 6.00 | Rating ** | M | Issue No. | 34 (cont) |
| LM End | 6.00 | Issue Type + | En | Location * | CR |

Photo 1 of 3 : UCIP_FA_2015_0198.jpg



Siphon breaker buried inside 16-inch steel riser on LS shoulder.

Photo 2 of 3 : UCIP_FA_2015_0199.jpg



Steel plate welded over pipe end at pump platform.

| * Location | ** Rating | + Issue Type |
|---|---|--|
| LS : Land Side WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
| N/A : Not Applicable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | |

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Knights Landing Ridge Drainage District

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------------------|-------|------------|--------------------------|------------|
| Unit No. 01 Knights Landing Ridge Cut | Right | 6.36 | 09/29/2015 09/29/2015 | Jai Lor |

| | | | | | |
|---------------------------------|----------------------|--------------|----|------------------------|---------------|
| LM Start | 6.00 | Rating ** | M | Issue No. | 34 (cont) |
| LM End | 6.00 | Issue Type + | En | Location * | CR |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.788921 ° | 38.788921 ° |
| | | | | -121.721985 ° | -121.721985 ° |
| DWR ID | | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:41068 | | | | | |
| DS_ID:19397 | | | | | |
| EP_NO: 5276 | | | | | |
| FS_HLM: 6.064 | | | | | |
| Repair Type: Non-Urgent | | | | | |
| Crossing Status: Found | | | | | |

Photo 3 of 3 : UCIP_FA_2015_0200.jpg



Pump on steel structure at WS toe.

| | | | | | |
|--|------------------------|--------------|----|------------------------|---------------|
| LM Start | 6.07 | Rating ** | M | Issue No. | 7 |
| LM End | 6.34 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.789641 ° | 38.792433 ° |
| | | | | -121.722958 ° | -121.726463 ° |
| DWR ID | DWR_NA0008_01_s_2012_7 | | | | |
| Action/Comments | | | | | |
| Equipment | | | | | |
| Inspector Comments: Equipment are on the slope of the levee. | | | | | |

Photo 1 of 2 : FA_2015_NA0008_256_7_20151005_00023.jpg



View of the equipment on the landward side of the levee looking upstream. Fall 2015.

| | | | | | |
|----------|-------------|--------------|----|------------|-----------------|
| LM Start | 6.07 | Rating ** | M | Issue No. | 7 (cont) |
| LM End | 6.34 | Issue Type + | En | Location * | LS |

Photo 2 of 2 : FA_2015_NA0008_256_7_20150914_00002.jpg



A current view of the equipment on the levee slope. Spring 2014

| | | | | | |
|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|--|--|---|--|---|--|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Knights Landing Ridge Drainage District

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------------------|-------|------------|--------------------------|------------|
| Unit No. 01 Knights Landing Ridge Cut | Right | 6.36 | 09/29/2015 09/29/2015 | Jai Lor |

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 6.23 | Rating ** | M | Issue No. | 24 |
| LM End | 6.23 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 38.791286 ° | 38.791286 ° |
| | | | | -121.725034 ° | -121.725034 ° |
| DWR ID | DWR_NA0008_01_f _ 2015_24 | | | | |
| Action/Comments | | | | | |
| Exterminate rodents and backfill and compact or grout burrows. | | | | | |

Photo 1 of 1 : FA_2015_NA0008_256_24_20151005_00024.jpg



View of the rodent holes on the waterward side of the levee looking downstream. Fall 2015.

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 6.29 | Rating ** | U | Issue No. | 25 |
| LM End | 6.29 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 38.791949 ° | 38.791949 ° |
| | | | | -121.725921 ° | -121.725921 ° |
| DWR ID | DWR_NA0008_01_f_2015_25 | | | | |
| Action/Comments | | | | | |
| Exterminate rodents and backfill and compact or grout burrows. | | | | | |

Photo 1 of 1 : FA_2015_NA0008_256_25_20151005_00025.jpg



View of the animal hole on the waterward side of the levee looking upstream. Fall 2015.

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|--|---|

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2015 Levee Inspection Results

Knights Landing Ridge Drainage District

| Waterway | | | Bank | Unit Miles |
|--|-------------------------|---------------------------|--------------------------------|---------------------------------|
| Unit No. 02 Knights Landing Ridge Cut | | | Left | 6.03 |
| | Spring (March - May) | Summer (June - August) | (September - November) Fall | Winter (December - February) |
| Unit Maintenance Rating (Fall Only) | | | U | |
| Date of Inspection | 04/23/2015 - 04/23/2015 | | 09/29/2015 - 09/29/2015 | |
| DWR Inspector | Jai Lor | | Jai Lor | |
| Accompanied By | | | | |

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Knights Landing Ridge Drainage District

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------------------|------|------------|--------------------------|-----------|
| Unit No. 02 Knights Landing Ridge Cut | Left | 6.03 | 09/29/2015 09/29/2015 | Jai Lor |

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 0.00 | Rating ** | A | Issue No. | 14 |
| LM End | 5.94 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.724273 ° | 38.792721 ° |
| | | | | -121.665289 ° | -121.724112 ° |
| DWR ID | DWR_NA0008_02_f _ 2015_14 | | | | |
| Action/Comments | | | | | |
| Control annual grass and weeds on the levee slopes and easements. Inspector Comments: The slope has been mowed and in compliance. | | | | | |

No Photos

| | | | | | |
|--|----------------------|--------------|----|------------------------|---------------|
| LM Start | 0.99 | Rating ** | M | Issue No. | 231 |
| LM End | 0.99 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.733120 ° | 38.733120 ° |
| | | | | -121.679383 ° | -121.679383 ° |
| DWR ID | | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:11307 DS_ID:19370 EP_NO: 9320 FS_HLM: 0.998 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned as pump is missing from platform. FIELD_STRUCT_DESC: 16-inch steel pipe through the levee 2.8-feet below the crown. Discharges into 36-inch concrete standpipe at levee toe. Pump on steel pile structure in stream with metal walkway. Two service poles on the waterward slope. (Permit No. 9320-Pollock) Originally included in O+M manual 1953. FS Date: 04/09/2013 | | | | | |

Photo 1 of 2 : UCIP_FA_2015_0218.jpg



Pump platform and walkway on WS toe.

| | | | | | |
|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|--|--|---|--|---|--|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Knights Landing Ridge Drainage District

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------------------|------|------------|--------------------------|------------|
| Unit No. 02 Knights Landing Ridge Cut | Left | 6.03 | 09/29/2015 09/29/2015 | Jai Lor |

| | | | | | | |
|---|----------------------|--------------|----|------------------------|---------------|--|
| LM Start | 0.99 | Rating ** | M | Issue No. | 231 (cont) | |
| LM End | 0.99 | Issue Type + | En | Location * | WS | |
| Category | Supplemental | | | GPS Latitude/Longitude | | |
| | | | | Start | End | |
| Item | DWR UCIP Field Study | | | 38.733120 ° | 38.733120 ° | |
| | | | | -121.679383 ° | -121.679383 ° | |
| DWR ID | | | | | | |
| Action/Comments | | | | | | |
| Inspector Comments: FS_ID:11307 | | | | | | |
| DS_ID:19370 | | | | | | |
| EP_NO: 9320 | | | | | | |
| FS_HLM: 0.998 | | | | | | |
| Repair Type: Non-Urgent | | | | | | |
| Crossing Status: Found | | | | | | |
| UCIP Comments: Appears abandoned as pump is missing from platform. | | | | | | |
| FIELD_STRUCT_DESC: 16-inch steel pipe through the levee 2.8-feet below the crown. Discharges into 36-inch concrete standpipe at levee toe. Pump on steel pile structure in stream with metal walkway. Two service poles on the waterward slope. (Permit No. 9320-Pollock) | | | | | | |
| Originally included in O+M manual 1953. | | | | | | |
| FS Date: 04/09/2013 | | | | | | |

Photo 2 of 2 : UCIP_FA_2015_0219.jpg



Pipe at 36-inch Concrete standpipe on LS toe.

| | | | | | |
|---|----------------------|--------------|----|------------------------|-------------|
| LM Start | 1.89 | Rating ** | U | Issue No. | 232 |
| LM End | 1.89 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.743768 ° | 38.743768 |
| | | | | -121.689185 ° | -121.689185 |
| DWR ID | | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:11306 DS_ID:19371 EP_NO: 9320 FS_HLM: 1.911 Repair Type: Urgent Crossing Status: Found UCIP Comments: Pipe at flap gate rusted through at WS toe. Flap gate does not function properly. FIELD_STRUCT_DESC: 1 of 2: 12-inch pipe through the levee, 4-feet below the crown. Flap gate on waterward end at concrete headwall, siphon breaker in 2-inch CM pipe riser on the landward shoulder. Vertical pump unit on concrete foundation in irrigation ditch at the LS toe. (Permit No. 9320-Pollock) Originally included in O+M manual 1953. FS Date: 04/09/2013 | | | | | |

Photo 1 of 3 : UCIP_FA_2015_0215.jpg



Pumphouse on concrete platform on LS toe with JP.

| * Location | ** Rating | + Issue Type |
|---|---|--|
| LS : Land Side WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
| N/A : Not Applicable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | |

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Knights Landing Ridge Drainage District

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------------------|------|------------|--------------------------|------------|
| Unit No. 02 Knights Landing Ridge Cut | Left | 6.03 | 09/29/2015 09/29/2015 | Jai Lor |

| | | | | | |
|----------|----------------------|--------------|----|------------------------|-------------------|
| LM Start | 1.89 | Rating ** | U | Issue No. | 232 (cont) |
| LM End | 1.89 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.743768 ° | 38.743768 ° |
| | | | | -121.689185 ° | -121.689185 ° |
| DWR ID | | | | | |

Action/Comments

Inspector Comments: FS_ID:11306
 DS_ID:19371
 EP_NO: 9320
 FS_HLM: 1.911
 Repair Type: Urgent
 Crossing Status: Found
 UCIP Comments: Pipe at flap gate rusted through at WS toe. Flap gate does not function properly.
 FIELD_STRUCT_DESC: 1 of 2: 12-inch pipe through the levee, 4-feet below the crown. Flap gate on waterward end at concrete headwall, siphon breaker in 2-inch CM pipe riser on the landward shoulder. Vertical pump unit on concrete foundation in irrigation ditch at the LS toe. (Permit No. 9320-Pollock) Originally included in O+M manual 1953.
 FS Date: 04/09/2013

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 1.89 | Rating ** | U | Issue No. | 232 (cont) |
| LM End | 1.89 | Issue Type + | En | Location * | WS |

Photo 2 of 3 : UCIP_FA_2015_0216.jpg



Pipe rusted through at flap gate on WS toe.

Photo 3 of 3 : UCIP_FA_2015_0217.jpg



12-inch pipe at concrete headwall on WS toe.

| | | | | | |
|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|--|--|---|--|---|--|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Knights Landing Ridge Drainage District

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------------------|------|------------|--------------------------|-----------|
| Unit No. 02 Knights Landing Ridge Cut | Left | 6.03 | 09/29/2015 09/29/2015 | Jai Lor |

| | | | | | |
|----------------------------------|----------------------|--------------|----|------------------------|---------------|
| LM Start | 2.26 | Rating ** | M | Issue No. | 233 |
| LM End | 2.26 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.748282 ° | 38.748282 ° |
| | | | | -121.692652 ° | -121.692652 ° |
| DWR ID | | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:11304 | | | | | |
| DS_ID:19388 | | | | | |
| EP_NO: 15517 | | | | | |
| FS_HLM: 2.281 | | | | | |
| Repair Type: Non-Urgent | | | | | |
| Crossing Status: Indicator Found | | | | | |

No Photos

| | | | | | |
|---|----------------------|--------------|----|------------------------|---------------|
| LM Start | 2.28 | Rating ** | U | Issue No. | 234 |
| LM End | 2.28 | Issue Type + | En | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.748505 ° | 38.748505 ° |
| | | | | -121.692697 ° | -121.692697 ° |
| DWR ID | | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:41832 DS_ID:19386 EP_NO: 13164 FS_HLM: 2.297 Repair Type: Urgent Crossing Status: Indicator Found UCIP Comments: Need to have pipe located and marked properly if still in use. FIELD_STRUCT_DESC: 4-inch steel natural gas collection pipe through the levee 3.2-feet below the crown. (Permit No. 13164, 1981). Design drawings available in permit. FS Date: 04/09/2013 | | | | | |

Photo 1 of 1 : UCIP_FA_2015_0214.jpg



Sign on LS shoulder may indicate location of pipe, or it may indicate where pipe crosses approach ramp to bridge.

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|--|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Knights Landing Ridge Drainage District

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------------------|------|------------|--------------------------|------------|
| Unit No. 02 Knights Landing Ridge Cut | Left | 6.03 | 09/29/2015 09/29/2015 | Jai Lor |

| | | | | | |
|--|----------------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.72 | Rating ** | M | Issue No. | 2 |
| LM End | 2.93 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2015 USACE Erosion Survey, DRAFT | | | 38.754899 ° | 38.757925 ° |
| | | | | -121.692653 ° | -121.693048 ° |
| DWR ID | | | | | |
| Action/Comments | | | | | |
| Inspector Comments: 2006 - The whole levee toe area is slowly slumping into the channel (creep) due to dewatering and poor slope soils. Occasional piping in the levee slope evident as well. Pistol-butted trees at the levee toe indicate slow retreat. 2011 - Multiple scallops throughout the site and slumping of the toe. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: KLR_3-0_L] | | | | | |

No Photos

| | | | | | |
|--|----------------------------------|--------------|----|------------------------|---------------|
| LM Start | 2.98 | Rating ** | M | Issue No. | 5 |
| LM End | 3.11 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2015 USACE Erosion Survey, DRAFT | | | 38.758587 ° | 38.760053 ° |
| | | | | -121.693359 ° | -121.694686 ° |
| DWR ID | | | | | |
| Action/Comments | | | | | |
| Inspector Comments: 2006 - The whole levee toe area is slowly slumping into the channel (creep) due to dewatering and poor slope soils. Occasional piping in the levee slope evident as well. Pistol-butted trees at the levee toe indicate slow retreat. 2011 - Slumping of the levee toe. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: KLR_3-1_L] | | | | | |

No Photos

| | | | | | |
|--------------------------------|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.02 | Rating ** | C | Issue No. | 230 |
| LM End | 3.02 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 38.759112 ° | 38.759112 ° |
| | | | | -121.693638 ° | -121.693638 ° |
| DWR ID | DWR_NA0008_02_f_2013_230 | | | | |
| Action/Comments | | | | | |
| Note and monitor erosion site. | | | | | |

No Photos

| | | | | | |
|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|--|--|---|--|---|--|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Knights Landing Ridge Drainage District

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------------------|------|------------|--------------------------|-----------|
| Unit No. 02 Knights Landing Ridge Cut | Left | 6.03 | 09/29/2015 09/29/2015 | Jai Lor |

| | | | | | |
|---|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.06 | Rating ** | C | Issue No. | 229 |
| LM End | 3.06 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Erosion / Bank Caving | | | 38.759542 ° | 38.759542 ° |
| | | | | -121.694007 ° | -121.694007 ° |
| DWR ID | DWR_NA0008_02_f _ 2013_229 | | | | |
| Action/Comments | | | | | |
| Note and monitor erosion site. Inspector Comments: Erosion is undermining large oak tree and is growing. | | | | | |

No Photos

| | | | | | |
|--|----------------------------------|--------------|----|------------------------|---------------|
| LM Start | 3.60 | Rating ** | M | Issue No. | 3 |
| LM End | 3.73 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2015 USACE Erosion Survey, DRAFT | | | 38.765522 ° | 38.767336 ° |
| | | | | -121.700608 ° | -121.701023 ° |
| DWR ID | | | | | |
| Action/Comments | | | | | |
| Inspector Comments: 2011 - The toe has eroded away and there are a few scallops from bank slumping. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: KLR_3-7_L] | | | | | |

No Photos

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.17 | Rating ** | M | Issue No. | 20 |
| LM End | 4.90 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.773554 ° | 38.781930 ° |
| | | | | -121.702435 ° | -121.710416 ° |
| DWR ID | DWR_NA0008_02_f_2015_20 | | | | |
| Action/Comments | | | | | |
| Control annual grass and weeds on the levee slopes and easements. | | | | | |

Photo 1 of 1 : FA_2015_NA0008_257_20_20151005_00023.jpg



View of the vegetation on the landward side of the levee looking downstream. Fall 2015.

| | | | | | |
|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|--|--|---|--|---|--|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Knights Landing Ridge Drainage District

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------------------|------|------------|--------------------------|-----------|
| Unit No. 02 Knights Landing Ridge Cut | Left | 6.03 | 09/29/2015 09/29/2015 | Jai Lor |

| | | | | | |
|--|----------------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.30 | Rating ** | M | Issue No. | 4 |
| LM End | 4.55 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2015 USACE Erosion Survey, DRAFT | | | 38.775271 ° | 38.778115 ° |
| | | | | -121.703685 ° | -121.706195 ° |
| DWR ID | | | | | |
| Action/Comments | | | | | |
| Inspector Comments: 2011 - This site is the downstream section of the old KLR 5.3L site. Levee toe is slowly retreating. Cracking on top of the levee may indicate potential mass movement. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: KLR_4-7_L] | | | | | |

No Photos

| | | | | | |
|-----------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.35 | Rating ** | M | Issue No. | 23 |
| LM End | 4.35 | Issue Type + | En | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.775988 ° | 38.775988 ° |
| | | | | -121.703887 ° | -121.703887 ° |
| DWR ID | DWR_NA0008_02_f_2015_23 | | | | |
| Action/Comments | | | | | |
| Tree or limb | | | | | |

Photo 1 of 1 : FA_2015_NA0008_257_23_20151005_00027.jpg



Perspective view of the fallen tree on the waterward side of the levee looking downstream. Fall 2015.

| | | | | | |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.59 | Rating ** | U | Issue No. | 15 |
| LM End | 4.59 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.778773 ° | 38.778773 ° |
| | | | | -121.706482 ° | -121.706482 ° |
| DWR ID | DWR_NA0008_02_s_2014_15 | | | | |
| Action/Comments | | | | | |
| Trees / Woody Vegetation | | | | | |
| Inspector Comments: Identified trees shall be removed and associated root balls and roots shall be appropriately removed since it threatens the integrity of the levee. | | | | | |

Photo 1 of 2 : FA_2015_NA0008_257_15_20150914_00004.jpg



A cottonwood tree may have been struck by lightning. The tree is split into three parts. Spring 2014

| | | | | | | | |
|--|--|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|--|--|--|--|---|--|---|--|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Knights Landing Ridge Drainage District

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------------------|------|------------|--------------------------|-----------|
| Unit No. 02 Knights Landing Ridge Cut | Left | 6.03 | 09/29/2015 09/29/2015 | Jai Lor |

| | | | | | |
|---|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.59 | Rating ** | U | Issue No. | 15 (cont) |
| LM End | 4.59 | Issue Type + | Ma | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.778773 ° | 38.778773 ° |
| | | | | -121.706482 ° | -121.706482 ° |
| DWR ID | DWR_NA0008_02_s _ 2014_15 | | | | |
| Action/Comments | | | | | |
| Trees / Woody Vegetation | | | | | |
| Inspector Comments: Identified trees shall be removed and associated root balls and roots shall be appropriately removed since it threatens the integrity of the levee. | | | | | |

Photo 2 of 2 : FA_2015_NA0008_257_15_20151005_00026.jpg



The cottonwood tree has broken and is on the waterward side of the levee. Fall 2015.

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.72 | Rating ** | M | Issue No. | 228 |
| LM End | 4.72 | Issue Type + | Ob | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Cracking | | | 38.780080 ° | 38.780080 ° |
| | | | | -121.708137 ° | -121.708137 ° |
| DWR ID | DWR_NA0008_02_f _ 2013_228 | | | | |
| Action/Comments | | | | | |
| Monitor and have inspected by geotechnical engineer. | | | | | |

No Photos

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.76 | Rating ** | M | Issue No. | 21 |
| LM End | 4.76 | Issue Type + | Ob | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Cracking | | | 38.780496 ° | 38.780496 ° |
| | | | | -121.708671 ° | -121.708671 ° |
| DWR ID | DWR_NA0008_02_f _ 2015_21 | | | | |
| Action/Comments | | | | | |
| Schedule repair of subsidence prior to the next inspection. Inspector Comments: Dessication crack is 7 inches wide and 2 feet deep. | | | | | |

Photo 1 of 1 : FA_2015_NA0008_257_21_20151005_00024.jpg



View of the dessication crack on the waterward side of the levee looking downstream. Fall 2015.

| | | | | | |
|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
| | | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | | |

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Knights Landing Ridge Drainage District

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------------------|------|------------|--------------------------|------------|
| Unit No. 02 Knights Landing Ridge Cut | Left | 6.03 | 09/29/2015 09/29/2015 | Jai Lor |

| | | | | | |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.79 | Rating ** | M | Issue No. | 226 |
| LM End | 4.82 | Issue Type + | Ob | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Cracking | | | 38.780858 ° | 38.781102 ° |
| | | | | -121.709093 ° | -121.709385 ° |
| DWR ID | DWR_NA0008_02_f _ 2013_226 | | | | |
| Action/Comments | | | | | |
| Monitor and have inspected by geotechnical engineer. | | | | | |

Photo 1 of 1 : FA_2015_NA0008_257_226_20150914_00005.jpg



Cracking on the landside is 3-4 inches wide and 12 inches deep. Fall 2013

| | | | | | |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.79 | Rating ** | M | Issue No. | 227 |
| LM End | 4.79 | Issue Type + | Ob | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Cracking | | | 38.780858 ° | 38.780858 ° |
| | | | | -121.709095 ° | -121.709095 ° |
| DWR ID | DWR_NA0008_02_f_2013_227 | | | | |
| Action/Comments | | | | | |
| Monitor and have inspected by geotechnical engineer. | | | | | |

Photo 1 of 2 : FA_2015_NA0008_257_227_20150914_00006.jpg



Another view of the cracking on the levee slope. Fall 2013

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 4.79 | Rating ** | M | Issue No. | 227 (cont) |
| LM End | 4.79 | Issue Type + | Ob | Location * | WS |

Photo 2 of 2 : FA_2015_NA0008_257_227_20150914_00007.jpg



Cracking on levee slope 1-2 inches wide and 6 inches deep. Fall 2013

| | | | | | |
|-----------------|----------------------|--------------------------|---|-----------------------------------|--|
| * Location | | ** Rating | | + Issue Type | |
| LS : Land Side | N/A : Not Applicable | A : Acceptable | N : Not Inspected/Rated | Ma : Maintenance Deficiency | |
| WS : Water Side | | M : Minimally Acceptable | C : Corrected | Ob : Design & System Obsolescence | |
| CR : Crown | | U : Unacceptable | A/W : Acceptable but Monitor & Maintain | En : Enforcement | |

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Knights Landing Ridge Drainage District

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------------------|------|------------|--------------------------|------------|
| Unit No. 02 Knights Landing Ridge Cut | Left | 6.03 | 09/29/2015 09/29/2015 | Jai Lor |

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 4.90 | Rating ** | A | Issue No. | 13 |
| LM End | 5.94 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Vegetation | | | 38.781930 ° | 38.792721 ° |
| | | | | -121.710416 ° | -121.724113 ° |
| DWR ID | DWR_NA0008_02_f _ 2015_13 | | | | |
| Action/Comments | | | | | |
| Control annual grass and weeds on the levee slopes and easements. Inspector Comments: The slope has been mowed and in compliance. | | | | | |

Photo 1 of 1 : FA_2015_NA0008_257_13_20151005_00015.jpg



View of the vegetation on the landward side of the levee looking downstream. Fall 2015.

| | | | | | |
|--|----------------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.36 | Rating ** | M | Issue No. | 6 |
| LM End | 5.93 | Issue Type + | Ma | Location * | WS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | 2015 USACE Erosion Survey, DRAFT | | | 38.786566 ° | 38.792395 ° |
| | | | | -121.716724 ° | -121.724091 ° |
| DWR ID | | | | | |
| Action/Comments | | | | | |
| Inspector Comments: 2011 - This site is the upstream section of the old KLR 5.3L site. Levee toe is slowly retreating. Cracking on top of the levee may indicate potential mass movement. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: KLR_5-8_L] | | | | | |

No Photos

| | | | | | |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.54 | Rating ** | M | Issue No. | 17 |
| LM End | 5.54 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 38.788592 ° | 38.788592 ° |
| | | | | -121.718902 ° | -121.718902 ° |
| DWR ID | DWR_NA0008_02_f_2015_17 | | | | |
| Action/Comments | | | | | |
| No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |

Photo 1 of 2 : FA_2015_NA0008_257_17_20151005_00016.jpg



Perspective view of the slope damaged by rodent burrows on the landward side of the levee looking downstream. Fall 2015.

| | | | | | |
|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
| | | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | | |

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Knights Landing Ridge Drainage District

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------------------|------|------------|--------------------------|------------|
| Unit No. 02 Knights Landing Ridge Cut | Left | 6.03 | 09/29/2015 09/29/2015 | Jai Lor |

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.54 | Rating ** | M | Issue No. | 17 (cont) |
| LM End | 5.54 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 38.788592 ° | 38.788592 ° |
| | | | | -121.718902 ° | -121.718902 ° |
| DWR ID | DWR_NA0008_02_f _ 2015_17 | | | | |
| Action/Comments | | | | | |
| No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |

Photo 2 of 2 : FA_2015_NA0008_257_17_20151005_00017.jpg



The rodent hole does not seem to go through the levee. Fall 2015.

| | | | | | |
|--|----------------------|--------------|----|------------------------|---------------|
| LM Start | 5.55 | Rating ** | M | Issue No. | 235 |
| LM End | 5.55 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.788662 ° | 38.788662 ° |
| | | | | -121.718997 ° | -121.718997 ° |
| DWR ID | | | | | |
| Action/Comments | | | | | |
| Inspector Comments: FS_ID:11289 DS_ID:19375 EP_NO: 3671 FS_HLM: 5.638 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Electrical panal missing parts. Siphon breaker missing from pipe on LS. Pipe heavily corroded at outlet with holes present. Appears abandoned-should be abandoned properly. FIELD_STRUCT_DESC: 20-inch steel pipe through the levee, 5.5-feet below the crown. Siphon breaker in a steel pipe riser on the landward slope. Metal cutoff wall . Service pole on the waterward slope. (Permit No. 3671-Wallace Replaced 20-inch pipe at same location in 1961) FS Date: 04/09/2013 | | | | | |

Photo 1 of 3 : UCIP_FA_2015_0211.jpg



Concrete headwall and distribution box at outlet on LS toe. Pipe heavily corroded.

| | | | | | |
|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|--|--|---|--|---|--|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Knights Landing Ridge Drainage District

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------------------|------|------------|--------------------------|------------|
| Unit No. 02 Knights Landing Ridge Cut | Left | 6.03 | 09/29/2015 09/29/2015 | Jai Lor |

| | | | | | |
|----------|----------------------|--------------|----|------------------------|-------------------|
| LM Start | 5.55 | Rating ** | M | Issue No. | 235 (cont) |
| LM End | 5.55 | Issue Type + | En | Location * | LS |
| Category | Supplemental | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | DWR UCIP Field Study | | | 38.788662 ° | 38.788662 ° |
| | | | | -121.718997 ° | -121.718997 ° |
| DWR ID | | | | | |

| Action/Comments | | | | | |
|---|--|--|--|--|--|
| Inspector Comments: FS_ID:11289 DS_ID:19375 EP_NO: 3671 FS_HLM: 5.638 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Electrical panel missing parts. Siphon breaker missing from pipe on LS. Pipe heavily corroded at outlet with holes present. Appears abandoned-should be abandoned properly. FIELD_STRUCT_DESC: 20-inch steel pipe through the levee, 5.5-feet below the crown. Siphon breaker in a steel pipe riser on the landward slope. Metal cutoff wall. Service pole on the waterward slope. (Permit No. 3671-Wallace Replaced 20-inch pipe at same location in 1961) FS Date: 04/09/2013 | | | | | |

| | | | | | |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | 5.55 | Rating ** | M | Issue No. | 235 (cont) |
| LM End | 5.55 | Issue Type + | En | Location * | LS |

Photo 2 of 3 : UCIP_FA_2015_0212.jpg



Missing siphon breaker on LS slope.

Photo 3 of 3 : UCIP_FA_2015_0213.jpg



Pump on pile structure on WS toe.

| * Location | ** Rating | + Issue Type |
|---|--|--|
| LS : Land Side WS : Water Side CR : Crown | A : Acceptable M : Minimally Acceptable U : Unacceptable | N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain |
| N/A : Not Applicable | | Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Knights Landing Ridge Drainage District

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------------------|------|------------|--------------------------|------------|
| Unit No. 02 Knights Landing Ridge Cut | Left | 6.03 | 09/29/2015 09/29/2015 | Jai Lor |

| | | | | | |
|--|---------------------------|--------------|----|------------------------|-------------|
| LM Start | 5.66 | Rating ** | U | Issue No. | 16 |
| LM End | 5.66 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 38.789794 ° | 38.789794 |
| | | | | -121.720338 ° | -121.720338 |
| DWR ID | DWR_NA0008_02_f _ 2015_16 | | | | |
| Action/Comments | | | | | |
| No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |

Photo 1 of 2 : FA_2015_NA0008_257_16_20151005_00021.jpg



Perspective view of the animal hole on the landward side of the levee looking downstream. Fall 2015.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 5.66 | Rating ** | U | Issue No. | 16 (cont) |
| LM End | 5.66 | Issue Type + | Ma | Location * | LS |

Photo 2 of 2 : FA_2015_NA0008_257_16_20151005_00022.jpg



There seems to be more than 2 cubic feet of material on the landward side of the levee. Fall 2015.

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.72 | Rating ** | M | Issue No. | 19 |
| LM End | 5.72 | Issue Type + | Ma | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Animal Control | | | 38.790385 ° | 38.790385 ° |
| | | | | -121.721131 ° | -121.721131 ° |
| DWR ID | DWR_NA0008_02_f _ 2015_19 | | | | |
| Action/Comments | | | | | |
| No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. | | | | | |

No Photos

| | | | | | |
|-----------------|----------------------|--------------------------|---|-----------------------------------|--|
| * Location | | ** Rating | | + Issue Type | |
| LS : Land Side | N/A : Not Applicable | A : Acceptable | N : Not Inspected/Rated | Ma : Maintenance Deficiency | |
| WS : Water Side | | M : Minimally Acceptable | C : Corrected | Ob : Design & System Obsolescence | |
| CR : Crown | | U : Unacceptable | A/W : Acceptable but Monitor & Maintain | En : Enforcement | |

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Knights Landing Ridge Drainage District

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------------------|------|------------|--------------------------|------------|
| Unit No. 02 Knights Landing Ridge Cut | Left | 6.03 | 09/29/2015 09/29/2015 | Jai Lor |

| | | | | | |
|--|---------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.79 | Rating ** | M | Issue No. | 18 |
| LM End | 5.79 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.791169 ° | 38.791169 ° |
| | | | | -121.722147 ° | -121.722147 ° |
| DWR ID | DWR_NA0008_02_f _ 2015_18 | | | | |
| Action/Comments | | | | | |
| Ditch | | | | | |
| Inspector Comments: Ditch is dug on the landside slope of the levee. | | | | | |
| | | | | | |

Photo 1 of 2 : FA_2015_NA0008_257_18_20151005_00018.jpg



Perspective view of the ditch on the landward slope of the levee looking downstream. Fall 2015.

| | | | | | |
|----------|-------------|--------------|----|------------|------------------|
| LM Start | 5.79 | Rating ** | M | Issue No. | 18 (cont) |
| LM End | 5.79 | Issue Type + | En | Location * | LS |

Photo 2 of 2 : FA_2015_NA0008_257_18_20151005_00020.jpg



The ditch is dug onto the landward slope of the levee. Fall 2015.

| | | | | | |
|-----------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.94 | Rating ** | C | Issue No. | 12 |
| LM End | 5.94 | Issue Type + | En | Location * | WS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.792661 ° | 38.792661 ° |
| | | | | -121.724047 ° | -121.724047 ° |
| DWR ID | DWR_NA0008_02_s_2014_12 | | | | |
| Action/Comments | | | | | |
| Debris | | | | | |

No Photos

| | | | | |
|--|--|---|--|---|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement |
|--|--|---|--|---|

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

Knights Landing Ridge Drainage District

| Waterway | Bank | Unit Miles | Inspection Start/End | Inspector |
|---------------------------------------|------|------------|--------------------------|------------|
| Unit No. 02 Knights Landing Ridge Cut | Left | 6.03 | 09/29/2015 09/29/2015 | Jai Lor |

| | | | | | |
|---|--------------------------|--------------|----|------------------------|---------------|
| LM Start | 5.94 | Rating ** | M | Issue No. | 1 |
| LM End | 5.94 | Issue Type + | En | Location * | LS |
| Category | Earthen Levee | | | GPS Latitude/Longitude | |
| | | | | Start | End |
| Item | Encroachments | | | 38.792735 ° | 38.792735 ° |
| | | | | -121.724092 ° | -121.724092 ° |
| DWR ID | DWR_NA0008_02_s _ 2012_1 | | | | |
| Action/Comments | | | | | |
| Crops | | | | | |
| Inspector Comments: No access; strawberries are being grown | | | | | |
| landside levee slope and crown | | | | | |

Photo 1 of 2 : FA_2015_NA0008_257_1_20150914_00001.jpg



Strawberry patch on the levee crown has added other crops on the crown. Fall 2013

| | | | | | |
|----------|-------------|--------------|----|------------|-----------------|
| LM Start | 5.94 | Rating ** | M | Issue No. | 1 (cont) |
| LM End | 5.94 | Issue Type + | En | Location * | LS |

Photo 2 of 2 : FA_2015_NA0008_257_1_20150914_00002.jpg



Crops (strawberries and berry vines) are planted on the crown with a fence blocking access. Spring 2014

| | | | | | |
|--|--|---|--|---|--|
| * Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown | | ** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain | | + Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement | |
|--|--|---|--|---|--|